

REMARKS

Claims 1-8 are now present in this application.

The specification and claims 1 and 5 have been amended. Reconsideration of the application, as amended, is respectfully requested.

Attached herewith is a Revocation of Power of Attorney, Substitute Power of Attorney, and Change in Correspondence Address. It is respectfully requested that this document be entered and that the U.S. Patent and Trademark Office's records be updated to reflect the new attorney and correspondence address, and that notification of entry of this power of attorney be forwarded to the undersigned.

The drawings stand objected to under 37 CFR 1.83(a). Accordingly, attached hereto is a Letter to the Official Draftsperson in which it is proposed that Figs. 5 and 6 be added. These Figs. 5 and 6 are based on Figs. 1 and 2 already on file in the instant application, and are equally applicable to the embodiment of Figs. 3 and 4. These figures include the zone which is defined by the circle 101 which is centered on the second shaft opening. Also, there is a range of  $\pm 10$  degrees which is from the base line 100 as shown in Fig. 5 of the attached drawings. This base line will intersect the board. A positioning mark 102 can be formed as shown in Fig. 6. It is respectfully submitted that the specification as filed provides support for the new Figs. 5 and 6.

approved and that the objection to the drawings under 37 CFR 1.83(a) now be reconsidered and withdrawn.

Claims 1-8 stand rejected under two 35 USC 112, first paragraph. These rejections are respectfully traversed.

As discussed above, the zone defined by the circle center of the second shaft opening has now been shown in the drawings. This should avoid any confusion. Also, the range defined by the base line  $\pm 10$  degrees is shown. As discussed in the specification, this  $\pm 10$  degrees is from fanning forward and rearward from the baseline for 10 degrees. In the arrangement shown in Fig. 5, an equipartition plane from the front end 111 and rear end 112 of two neighboring and opposing pole struts 11 is utilized (note page 3, lines 11-16 of the original specification). It is respectfully submitted that the arrangement shown in Figs. 5 and 6 is supported by the original disclosure. In view of the foregoing discussion as well as the attached proposed drawing corrections, it is respectfully submitted that the claimed subject matter is shown and described so as to reasonably convey to one skilled in the art that the inventors had possession of the claimed invention and this invention should be described to enable one skilled in the art to make and/or use the invention. It is respectfully requested that both of the 35 USC 112, first paragraph rejections now be reconsidered and withdrawn.

Claims 1-8 stand rejected under 35 USC 112, second paragraph. This rejection is respectfully traversed.

The claims no longer refer to "precisely" or to "improve". However, as set forth in the specification, the induction element is located in order to accommodate electric, air pressure, air flow rate and rotation speed of the fan in order to better accommodate the structure of the air fan induction element and stator. It is respectfully submitted that the claims should particularly point out and distinctly claim the subject matter of the instant invention. Reconsideration and withdrawal of the 35 USC 112, second paragraph rejection are respectfully requested.

Claims 1-4 stand rejected under 35 USC 102(b) as being anticipated by HORNG, U.S. Patent 5,967,763. This rejection is respectfully traversed.

Claims 5-8 stand rejected under 35 USC 102(b) as being anticipated by HORNG, U.S. Patent 6,109,892. This rejection is respectfully traversed.

Both of the HORNG patents fail to disclose the positioning structure for an air fan induction element and stator as is claimed in the present invention. The induction element can be located on a base line which is either  $\pm 10$  degrees or  $\pm 5$  degrees, based on certain parameters. By accommodation of the induction element in such a manner, the electric current, air pressure, air flow rate and rotation speed of the fan can all be accommodated in order to enhance the air fan durability. Recognition of these criteria in

the placement of the induction element have not been found in the prior art utilized by the Examiner.

The structure of the invention combines the upper pole sheets and lower pole sheets 52 of the Fig. 3 arrangement, for example, and having respectively symmetrically disposed on the stator 5 and the structure technology having an interval between the front pole end 511 and the rear pole end 521. In the first embodiment of Figs. 1 and 2, there is a zone defined by a circle centered on the shaft opening and having a range defined by the base line of  $\pm 10$  degrees. Again, it is noted for the claim 5 arrangement, this range is defined by a base line  $\pm 5$  degrees. None of the prior art utilized by the Examiner discloses positioning of the induction element in such a manner. It is respectfully submitted that neither HORNG reference would suggest or render obvious the claims of the present invention. Accordingly, both 35 USC 102(b) rejections should now be reconsidered and withdrawn.

Because the additional prior art cited by the Examiner has been included merely to show the state of the prior art and has not been utilized to reject the claims, no further comments concerning these documents are considered necessary at this time.

Favorable reconsideration and an early Notice of Allowance are earnestly solicited.

In the event that any outstanding matters remain in this application, the Examiner is invited to contact the undersigned at (703) 205-8000 in the Washington, D.C. area.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), the Applicant respectfully petitions for a one (1) month extension of time for filing a response in connection with the present application and the required fee of \$110.00 is attached herewith.

**Attached hereto is a marked-up version of the changes made to the application by this Amendment.**

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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Attachment: Version with Markings to Show Changes Made

(Rev. 02/20/02)

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

A paragraph has been added after the paragraph ending on page 2, line 20.

A paragraph has been added after the heading beginning on page 2, line 21.

Paragraphs have been added after the paragraph ending on page 3, line 4.

The paragraph beginning on page 3, line 6, has been amended as follows:

--Referring to FIGS. [1and 2] 1, 2, 5 and 6, the structure according to this invention [consists] mainly includes a stator 1, a circuit board 2 and an induction element 3. The induction element 3 is located at a desired position on the circuit board 2. As shown in Fig. 5, a base line 100 intersects a location for induction element 3. The position is in a zone defined by a circle [center coincided] 101 concentric with [the] a center of a second shaft opening 21 of the circuit board 2 and [a] the base line  $\pm 10$  degrees (i.e. fanning forwards and rearwards from the base line for 10 degrees, for quadruple-pole stators), with the base line 100 formed by the intersection of the circuit board 2 and an equipartition plane of a front end 111 and a rear end 112 of two neighboring and opposing pole struts 11. A position mark 102 is set on the circuit board 2 for mounting the induction element 3. The position mark 102 may be a point mark or a line mark. The stator 1 has a plurality of equally spaced pole struts 11 located along the perimeter direction, and also has a first shaft opening 12 which has equal diameter as the second shaft opening 21 of the circuit

board 2. The stator 1 and circuit board 2 are engaged through a shaft. The induction element 3 may be vertically mounted or horizontally mounted.--

The paragraph beginning on page 4, line 23, has been amended as follows:

--Referring to FIGS. 3 and 4 for another embodiment of this invention, the structure [consists] mainly includes a stator 5, a circuit board 2 and an induction element 3. The induction element 3 is located at a desired position on the circuit board 2. The position is in a zone defined by a circle center coincided with the center of a shaft opening 21 of the circuit board 2 and a base line  $\pm 5$  degrees (i.e. fanning forwards and rearwards from the base line for 5 degrees, for octadpole stators), with the base line formed by intersecting the circuit board 2 with the equipartition plane of a front pole end 511 of an upper pole sheet 51 and a rear pole end 521 of a lower pole sheet 52. A position mark is set on the circuit board 2 for mounting the induction element 3. The position mark may be a point mark or a line mark. The stator 5 has equally spaced upper pole sheets 51 and lower pole sheets 52 located along the perimeter direction, and also has a shaft sleeve 54 which has [equal] a diameter [as] equal to the shaft opening 21 of the circuit board 2. The stator 5 and circuit board 2 are engaged through a shaft. The induction element 3 may be vertically mounted or horizontally mounted.--

A paragraph has been added after the paragraph ending on page 6, line 19.

IN THE CLAIMS:

The claims have been amended as follows:

1. (Amended) A positioning structure for air fan induction element and stator, comprising:

a stator having a first shaft opening and a plurality of pole struts, one pole strut having a front end opposing a rear end of a neighboring pole strut;

a circuit board having a second shaft opening which has [equal] a diameter [as] generally equal to the first shaft opening and engageable with the stator; and

an induction element located at a selected position in a zone defined by a circle [center coincided] concentric with [the] a center of the second shaft opening, and in a range defined by a base line  $\pm$  10 degrees, with the base line formed by the equipartition plane of the opposing front end and the rear end of the two neighboring pole struts intersecting with the circuit board thereby to position a quadruple-pole stator [precisely and] to [improve] accommodate electric current, air pressure and air flow rate and rotation speed of the air fan [and] to enhance air fan durability.

5. (Amended) A positioning structure for air fan induction element and stator, comprising:

a stator having an upper pole sheet, a lower pole sheet, a shaft sleeve, and a wiring frame located between the upper pole sheet and the lower pole sheet, the upper pole sheet having a front pole end, the lower pole sheet having a rear pole end;

a circuit board having a shaft opening which has [equal] a diameter [as] generally equal to the shaft sleeve diameter and engageable with the stator; and

an induction element located at a selected position in a zone defined by a circle [center coincided] concentric with [the] a center of the shaft opening, and in a range defined by a base line



$\pm 5$  degrees, with the base line formed by the equipartition plane of the front pole end of the upper pole sheet and the rear pole end of the lower pole sheet intersecting with the circuit board thereby to position an octonary-pole stator [precisely and] to [improve] accommodate electric current, air pressure and air flow rate and rotation speed of the air fan [and] to enhance air fan durability.